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09/975,690	10/11/2001	William W. Lee	NY-THEOR 203.1-US	2373	
24972 75	590 04/29/2004		EXAMINER		
FULBRIGHT & JAWORSKI, LLP 666 FIFTH AVE			KIANERSI, MITRA		
NEW YORK NV 10102 2109		· · · · · · · · · · · · · · · ·	ART UNIT	PAPER NUMBER	
	•		2143	7.	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	Ò			
Office Action Summary		09/975,690	LEE ET AL.				
		Examiner	Art Unit				
		mitra kianersi	2143				
 Period for	The MAILING DATE of this communication app Reply	pears on the cover sheet with the o	correspondence address				
THE M - Extens after S - If the p - If NO p - Failure Any re	RTENED STATUTORY PERIOD FOR REPL' AILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.1 IX (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statute ply received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed /s will be considered timely. I the mailing date of this communicati ED (35 U.S.C. § 133).	on.			
Status							
2a)☐ ☐ ☐ 3)☐ S	<i>/</i>						
Dispositio	n of Claims						
5)	Claim(s) 1-18 is/are pending in the application a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.					
Applicatio	n Papers						
10)⊠ T	the specification is objected to by the Examine the drawing(s) filed on 11 October 2001 is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Example 1.	: a)⊠ accepted or b)□ objected drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121	(d).			
Priority ur	nder 35 U.S.C. § 119						
12)	cknowledgment is made of a claim for foreign All b) Some * c) None of:  Certified copies of the priority document  Copies of the certified copies of the priority document application from the International Burease the attached detailed Office action for a list	is have been received. Is have been received in Applicate rity documents have been received (PCT Rule 17.2(a)).	ion No ed in this National Stage				
2) Notice 3) Inform	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date <u>5</u> .	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:					

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Claims 1-18 have been examined.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Anne Thomas (Patricia Seybold Group, December 1998), and further in view of Underwood (US Patent No. 6601233).

- 1. As per claim 1, Thomas discloses a method of generating code for Enterprise
  JavaBeans (EJB) components from a business process (Enterprise JavaBeans, page 1, [1]).
  transforming each of said EJB components into EJB source code. (simpler and better code,
  page 5, [5]). Although, Thomas does not explicitly disclose the steps of: graphically modeling
  business process using a UML drawing tool to provide an UML model having a plurality of EJB
  Classes, defining relationships between said plurality of EJB classes; and stereotyping each of
  said plurality of EJB classes into one or more EJB components. However, Underwood teach a
  method where in the industry standard representing the object model in UML notation and
  (Rational Rose 98). Also see (Configure Java Runtime components, Underwood). Therefore, it
  is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise
  JavaBeans Persistence Mechanism with Underwood's teaching of Business Components
  Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)
- 2. As per claim 2, Thomas does not teach comprising the step of compiling said EJB source code to generate EJB application in accordance with deployment properties. However, Underwood teach that In deployment 14542, the Partitioned Business Components are

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packaged and deployed as part of the application into the production environment. The application parameters and the manner in which the Partitioned Business Components are distributed are tweaked based on how well the application performs. Col 315, lines 5-10, Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)

- 3. As to claim 3, Thomas teach the invention substantially as claimed further comprising the step of deploying said EJB application to a server using one of the following: bean managed persistence or container managed persistence. (corresponds to EJB Architecture and Java bean container EJB container, page 3, [2, 3] container-managed persistence, Thomas)
- 4. As to claim 4, Thomas teach the invention substantially as claimed wherein the step of stereotyping stereotypes an EJB class into at least one of the following EJB component: Belonging, Session, Entity, Configurable Entity, Business Policy and Workflow (corresponds to transient and persistent objects and session beans, page 5, [6, 7], Thomas)
- 5. As to claim 5, Thomas teach the invention substantially as claimed wherein an Entity EJB component comprises at least one interface and two EJB classes. (corresponds to an EJB home interface used by the client to create, find or destroy the object, page 3, [3], Thomas)
- 6. As to claim 6, Thomas teach the invention substantially as claimed wherein said Entity EJB component being associated with a Primary Key class and a Value class. (Corresponds to Entity Beans, page 6, [1], Thomas)
- 7. As to claim 7, Thomas teach the invention substantially as claimed wherein each EJB component includes at least one of the following: name, stereotype, attribute and method. (corresponds to enabling reusability, page 5, [4], Thomas)

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8. As to claim 8, Thomas teach the invention substantially as claimed wherein each attribute includes a pair of accessor methods. (corresponds to EJB object interface used by the client to access the business method within the object. Page 3, [3], Thomas)

- 9. As to claim 9, Thomas teach the invention substantially as claimed wherein said relationships include at least one of the following: inheritance and aggregation. (corresponds to extending a preexisting object class for new functionality (inheritance) and simple containment of another object (aggregation), page 7, [3], Thomas)
- 10. As to claim 10, Thomas teach the invention substantially as claimed wherein said aggregation includes multiplicity. (corresponds to when an object could point to hundreds of other objects, page 7, [3], Thomas)
- 11. As to claim 11, Thomas teach the invention substantially as claimed further comprising the steps of: determining if said multiplicity relationship is one to many; and stereotyping said aggregation relationship. (corresponds to object relationships, page 7, [3], Thomas)
- 12. As per claim 12, Thomas does not teach the collection type includes one of the following: Set, Array, List or Map. However, Underwood in Col 27, lines 44-50 disclose that it is better to use a variant array instead of collection to pass information around. It is more robust and performs better. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)
- 13. As per claim 13, Thomas does not wherein each EJB component is a Smart Component having at least one Smart Feature. However Underwood, in col 323, lines 28-44, discloses (Robert Orfali, Dan Harkey, and Jeri Edwards also wrote the book The Essential Distributed Objects Survival Guide (1996). Chapter 2, "From Distributed Objects to "Smart Component," is an excellent source of information about objects,

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components, and the differences between them. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans

Persistence Mechanism with Underwood's teaching of Business Components

Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)

- 14. As per claim 14, Thomas does not teach Smart Feature includes one of the following: SmartKey, SmartHandle and SmartValue. However, Underwood in Col 175, lines 64-67 discloses Java's method of choice for handling error conditions is exception handling. Exception handling allows one to keep the sequential flow of the functional code separate from the error handling. This leads to less complex code. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)
- 15. As per claim 15, Thomas does not wherein said Smart component is an eBusiness Smart Component. However, Underwood in col 311, lines 65-67 teach that the code modules are subsequently deployed in an e-commerce environment in operation. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)
- 16. As per claim 16, Thomas does not wherein the step of transforming includes the step generating said EJB codes according to a Code Template Dictionary. However, Underwood in col 217, lines 12-15 disclose a Project Configuration Management Plan templates for each platform have been created, and sample Project Configuration Management Plans are also available, Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)

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17. As per claim 17, Thomas does not wherein said Code Template Dictionary includes key-value pair entries. However, Underwood in Col 110, lines 54-56, teach to encrypt the contents of the message through the use of a public key/private key pair. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)

18. As per claim 18, Thomas does not wherein values of said Code Template Dictionary represent EJB code templates. However, Underwood in Col 317, lines 42-49, teach a JavaBeans that encapsulates a reusable concept like address or monetary value, a complex user interface control that allows users to edit a list of order lines, a group of objects responsible for persistence, a JavaBeans that sorts a collection of objects, and a list box coded as an ActiveX control. Therefore, it is obvious to one of ordinary skill in the art to incorporate Thomas's teaching of Enterprise JavaBeans Persistence Mechanism with Underwood's teaching of Business Components Framework to improved integration, interoperability, and scalability, col 314, lines 9-10)

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mitra Kianersi whose telephone number is (703) 305-4650. The examiner can normally be reached on 7:00AM-4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wiley can be reached on (703) 308-5221. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Mitra Kianersi

April/16/2004

DAVID WILEY
SUPERVISORY PATENT EXAMINER
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